

### DMI Report – Allen Merrill

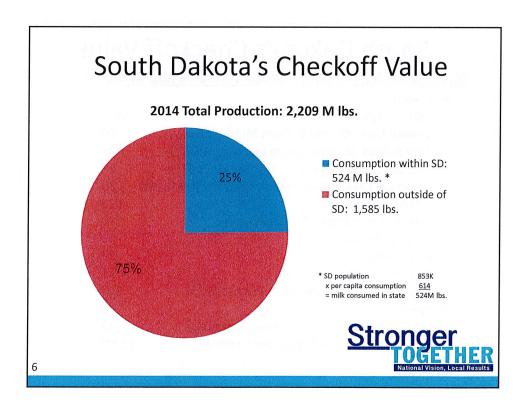
### Sept. 15–17 DMI Board Meeting Highlights

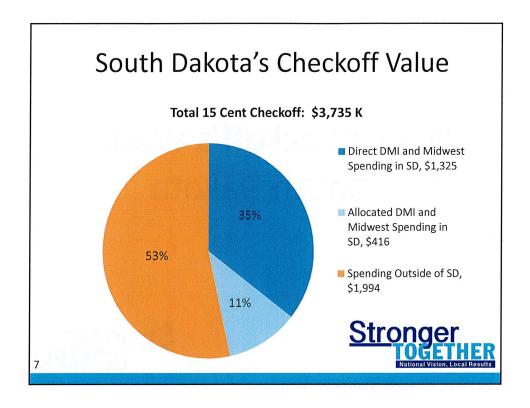
- McDonald's Butter and Cheese
- Fluid Milk Innovation
- Consumer Confidence



# Dairy Checkoff's Work in South Dakota

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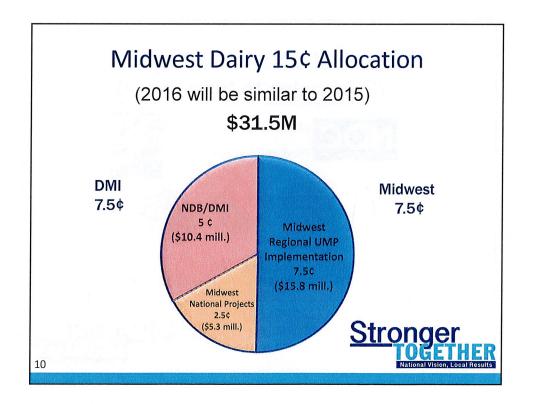
### South Dakota's Checkoff Value Direct Spending in South Dakota from DMI and Midwest (5000) · Research: \$457 2015 Projects (from DMI) Annual Dairy Research (from Midwest Dairy) 60 IDIP & Appl. Scientist (from Midwest & DMI) 256 - IDIP Specialized Equipment (from ADA of SD) 35 Technical Evaluation/Literature Review (Midwest) 20 Subtotal Research 828 Dedicated SD Staff (Roger & Whitney) 243 Fuel Up to Play 60 63 **Nutrition Affairs** 22 **Consumer Confidence** 27 Division Market Programs (incl. Princess \$23) 107 **Business Development** 3 **Producer Communications & Board Meetings** 32 \$1,325 **Total Direct Spending in South Dakota**

### South Dakota's Checkoff Value

## Allocated Spending in South Dakota from DMI and Midwest (\$000)

- Midwest Dairy Staff, including Business Development, Integrated Communications, Leadership, Supervisory & Support Staff
   \$ 92
- National Dairy Board (5¢) for development of UMP programs – SD portion based on .27% of U.S. population

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### Dairy's National Investment (5¢ helps to fund these)

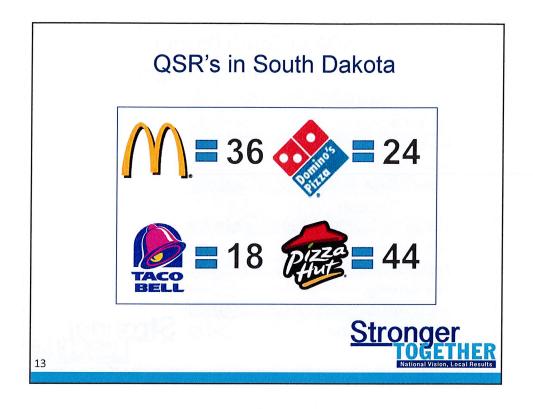


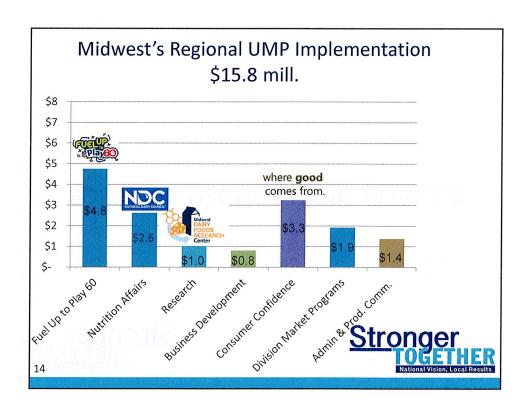
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### Midwest's National Projects (2.5¢ helps to fund these)



Southeast United States





### ADA of South Dakota 2016 Preliminary Budget

<u>Revenue</u>			
Checkoff Receipts	\$2,490,000		
Interest	2,500		
Misc. Revenue	25		
Total Revenue	2,492,525		
<u>Expenses</u>			
Contract – Midwest Dairy Assn.	2,455,000		
SDSU Foundation	35,000		
State Dept. Charges			
Board Meetings	550		
Total Expenses	2,492,950		
Excess of Rev. over Exp.	\$(425)		

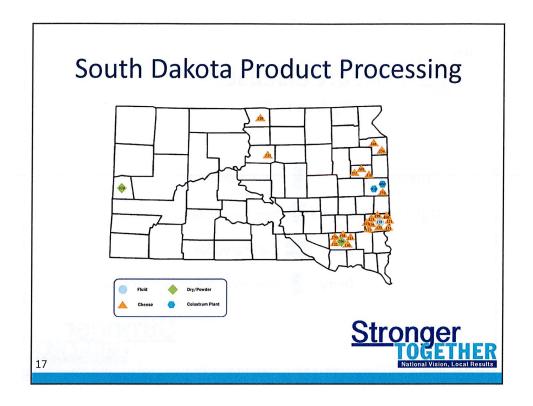


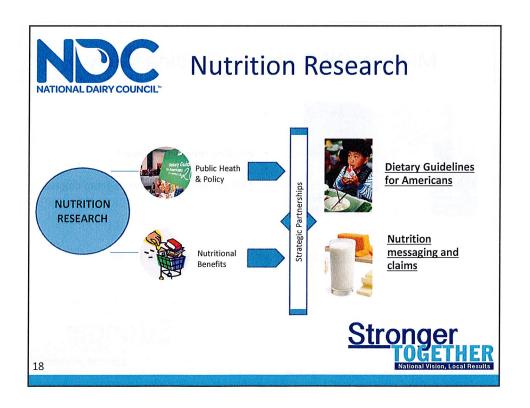
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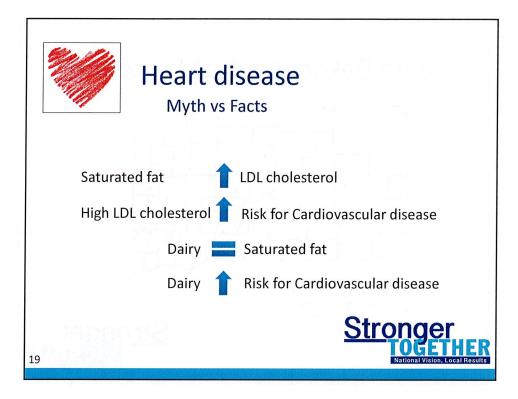
### **MIDWEST DAIRY FUNDED RESEARCH**

Mary Wilcox,
VP Business Development-Manufacturing & Research









### Midwest/NDC Cheese Feeding Study



- · Healthy men and women
- · Six week feeding study
- · 13% of total daily calories from cheese

Cheese intake did not increase total or LDL cholesterol levels

Hjerpsted et al. Am J Clin Nutr 94:1479-1484, 2011



### Dairy Research Consortium Cheese Study

### **International Dairy Organizations**







MEJERIFORENINGEN



Diets Rich in Cheese Maintain a Higher HDL Cholesterol

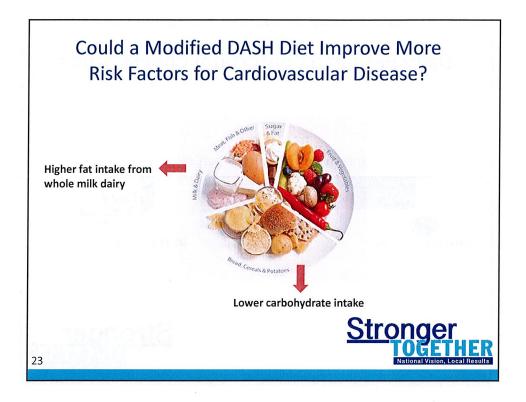
- Overweight women
- · Two-week feeding study
- · 3-plus serving of cheese per day
- · Low-fat (carbohydrate) control

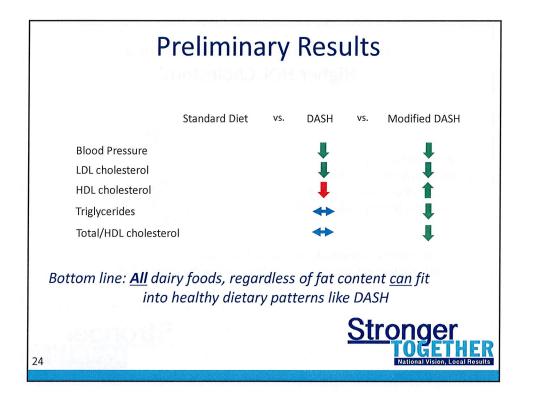


LDL cholesterol levels decreased on both diets; HDL cholesterol maintained a higher level on the cheese diet.

Thorning et al. Am J Clin Nutr on-line ahead of print; July 15, 2015







### Promote Nutritional Benefits



Muscle recovery & function



Dairy protein quality



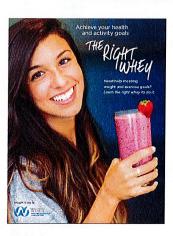
Mental energy & cognition



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### **Whey Protein Research Consortium**

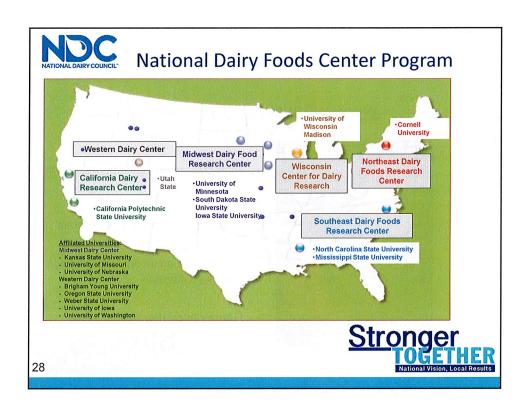
www.wheyconsortium.org



- Tools created for consumers & health professionals
- Highlights benefits of whey protein
- Includes tips on incorporating whey into diet & lifestyle
- Future clinical research on aging

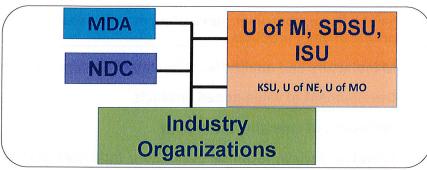








 Three way partnership among the Universities, dairy promotion and research organizations, and industry organizations



Operational Advisory Committee (OAC)
 Recommends overall policies, goals and determines research strategies

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### **2015 Industry Contributors**

**Nutricepts** 

Davisco, Business unit of Agropur

Kraft Foods, Inc.

Grande Cheese Co.

**Agropur Ingredients** 

Schreiber Foods, Inc

Swiss Valley Farms

**Hormel Foods, Inc** 

Milk Specialties Global

**General Mills** 

**Dairy Farmers of America** 

**Perten Instruments** 

**Sargento Foods** 

30 TetraPak

Land O' Lakes, Inc.

**North Central Cheese Industries** 

**Valley Queen Cheese Factory** 

**Danisco USA** 

**Wells Blue Bunny** 

**Narasimmon Consulting** 

**Advanced Food Products** 

**First District Association** 

**Saputo Dairy Foods** 

**Nestle USA** 

**AMPI** 

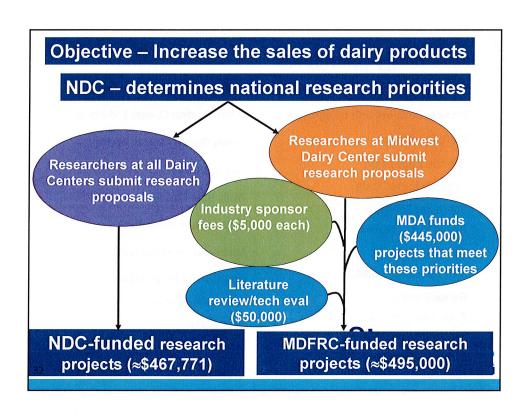
Darigold

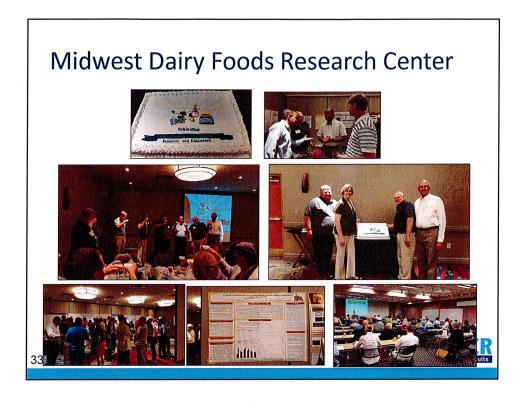
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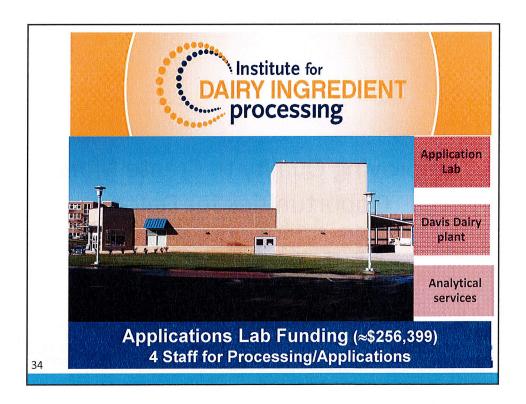
### Focus of Midwest Dairy Foods Research Center

- Development of analytical tools and testing methods
- Safety, flavor, consumer perception, or nutritional profile of dairy products
- Manufacture and quality/functionality of dairy products
- Development of value-added products
- Evaluation of emerging technology
- Literature review/Technical evaluation/ Industry training









**Recent Successes** 

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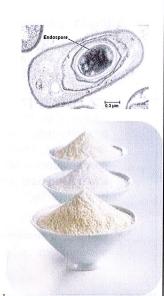
Improving Quality to Create More Opportunities for Dairy

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### Spores: Why do we care?

- Spores can remain viable in product after pasteurization and/or refrigeration
- Long lasting impact on flavor, shelf life, quality and safety of dairy products and ingredients
- Buying specifications are becoming more stringent



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# Spore Research Enables Industry To Be More Competitive

# Areas of Work On-farm practices Production practices Cleaning practices Biofilm prevention Process technology to eliminate spores Faster spore detection Global testing procedures

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### **Transfer & Adoption:**

### **Marketplace Accomplishments**

- More consistent production and sales of higher quality product
- Improved quality across products: milk protein concentrate, whole and skim milk powders, whey powders, cheese and fluid milk manufacturing
- Conducted Research Forum and Seminars on Spores

### **Manufacturer Success Stories**

- Nonfat dry milk producer consistently meets export quality requirements, where customer realized \$15M in incremental sales
- Cheese producer increased annual production capacity by 7.5% by eliminating the need for a mid-day wash. Resulted in fewer defects to consumers and greater efficiency
- Additional manufacturers in all segments requesting in-house seminars and volunteering for scale-up testing of new technologies

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# Creating New Opportunities for Dairy Proteins



'Protein is the hottest functional food ingredient trend in the United States': Packaged Facts

foodnavigator.com

2015 Trends: Pack in the Protein

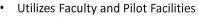
restaurant-hospitality.com

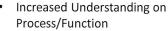
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### **Consumers Want To Know** CLEAR: Fewer ingredients CLEAN: fewer ingredients, more + knowing where they came from recognizable ingredients, "no + they are safe more than two syllables" + minimal processing + limited environmental impact **INDUSTRY STANDARD** Clean label turning into industry NICHE norm: study Niche no longer: clean labels becoming food industry • 20% increase in the last 12 months on foods marketing "clean" labels 42

### Clean Label Dairy Product Research

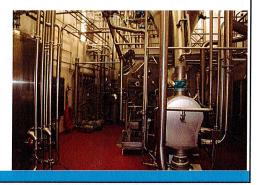












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### Clean Label Outcome from Research





Grade A Nonfat Milk, Cultures and Sugar

### Is Yogurt A Health Food or a Junk Food?



Dannon Light & Fit Greek Nonfat Yogurt Blueberry':
Cultured Grade A Nonfat Milk", Water, Blueberry Puree,
Fructose", Modified Corn Starch", Natural Flavor, Carmine,
Sucratose, Malic Acid", Potassium Sorbate, Acesulfame
Potassium, Sodium Citratet",
'ingredient may be derived from or produced with GMOs



Yoplait Light Red Raspberry Yogurt\*: Cultured Grade A Nonfat MM:", Raspberries, Modified Corn Starch\*, "Sugar', Kosher Gelain, Cairc Acid\*, Tricalcium Phosphate, Natural Flavor\*, Potassium Sorbate, Acesul'ame Potassium, Sucralose, Red #40, Vitamin A Acetate\*\*, Vitamin D3\*\*\*.

"this yogurt is not organic
"ingredient may be derived from or produced with GMOs
"synthetic vicamins



Activa Greek Orchard Peach Yogurt\*: Cultured Grade A Nonfat Milir, Peaches, Sugar\*, Fructose\*, Water, Modified Corn Starch\*, Natural Flavor\*, Pectin, Fruit Juice and Vegetable Juice (for color)\*, Carrageenan, Sodium Carate\*, Lactic Acid\*, Vitamin D3\*\*, Calcium Citrate\*,

this yogurt is not organic "ingredient may be derived from or produced with GMOs "synthetic vitamin

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### **Industry Activation**



IFT -July 2015 Chicago, Illinois





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### Hopkins MN September 22

### **Event Objectives:**

- Afternoon of Dairy Education Seminars, Tours of Supervalu's Automated Distribution Center, Chairs' Award, Networking, Presentation and Dinner featuring SUPERVALU's own private brand products
- Natural Cheese 101-Dr. Tonya Schoenfuss
- Protein: Addressing the Protein Need in Product Formulation-Mary Wilcox



# Tomorrow's Dairy Consumer Minneapolis-November 10th

### **Event Objectives:**

- Understand more about the Millennial consumer
- Discuss the need for Trust, Transparency, Sustainability
- Hear how Taco Bell is changing their marketing tactics to reach this consumer
- Share dairy options and resources that are available for use

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### **Midwest Dairy Research Forum**

Whey Based Ingredient Opportunities

October 13-14, 2015 Rochester, MN











### **Transfer & Adoption:**

### **Marketplace Accomplishments**

- Concepts have been introduced to both mainstream and medical nutrition segments
- Product development efforts are underway at many different companies utilizing new dairy protein ingredients

### **Manufacturer Success Stories**

Over 6 different processors are testing new products and processes to create functional dairy protein ingredients at IDIP

Over 3 different processors are conducting testing/economic feasibility work for large scale manufacture.

**Result: New Uses/New Markets** 



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### Industry's Primary Recommendation:

Pursue a "growth and prosperity" strategy, targeting individual state growth rates at a minimum of maintaining share of the U.S. milk supply while paying producers a nationally competitive milk price.





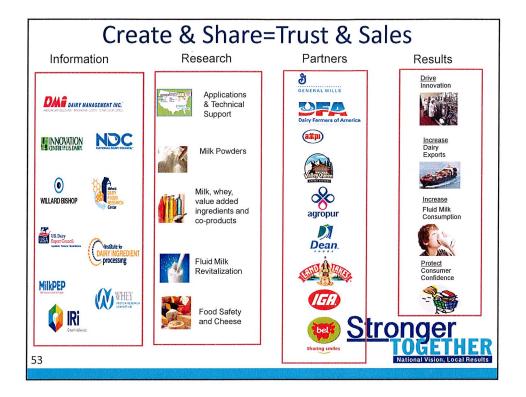




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